

L 30082-66

ACC NR: AP6012209

SOURCE CODE: UR/0237/66/000/004/0006/0009

AUTHOR: Novikov, A. V.; Penyaz', M. A.

ORG: none

63  
B

TITLE: Choice of certain parameters for slit analyzer of the field of view

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 4, 1966, 6-9

TOPIC TAGS: optic analysis, optic tracking, signal analysis, signal shape, error prediction

ABSTRACT: The authors analyze the field of view of optical-mechanical devices in which the coordinate of the moving target is determined by the intersection of two illuminated lines, wherein the linear distance between the illuminated lines in the horizontal direction represents the measured coordinates, and the relative position of the line represents the sign of the coordinate. The calculations are made for an analyzer made in the form of a rectangular slit which executes reciprocating motion in the analysis plane (Fig. 1). The results apply also for the slit analyzers based on motion along a spiral, helix, etc. Formulas are derived for the rate of analysis of the field of view required to stay within a prescribed error (analysis frequency), for the modulation frequency of the light

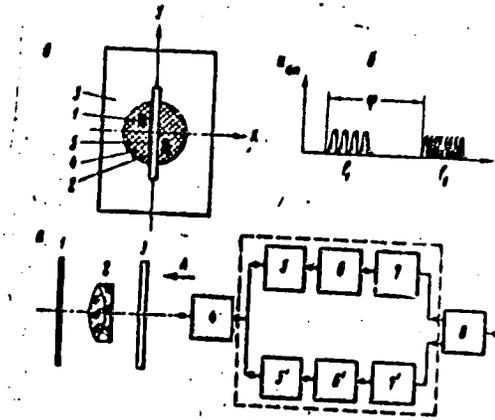
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UDC: 62

L 30082-66

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Fig. 1. Diagram showing analysis of the field of view: a) 1 - Reference plane of measurement object, 2 - generalized optical system, 3 - analyzer, 4 - photoreceiver, 5, 5' - filters, 6, 6' - detectors, 7, 7' amplifiers, 8 - control circuit; b) 1, 2 - glowing lines, 3 - analyzer, 4 - field of view of instrument, 5 - analyzer slit.



fluxes of the lines required to ensure reliable separation of the signal and a specified error, and the allowed asymmetry of the amplifying branches of the signal-shaping circuit. Orig. art. has: 5 figures and 10 formulas.

SUB CODE: 20, 17/ SUBM DATE: 26Jan65/ ORIG REF: 002

Card 2/2 *JP*

~~NOVIKOV, A.V.~~; GANINA, A.Z.; ONEGINA, A.K.; STULOVA, M.V.; AZAROVA, L.A.;  
DAN'KOVA, M.N.; OPOLCHENTSEVA, T.D.; SHIBAYEV, D.P.; ZHABYKO, Ye.G.;  
MINKINA, A.G.; OVSYANKINA, Ye.I.; SAVENKOV, F.S., red.; SLENZIN,  
A.A., red.; FOMICHEV, P.M., tekhn.red.

[Economy of Kaluga Province; collected statistics] Narodnoe khoziai-  
stvo Kaluzhskoi oblasti; statisticheski sbornik. Moskva, Gos.stat.  
izd-vo, 1957. 142 p. (MIRA 11:6)

1. Kaluzhskaya oblast', Statisticheskoye upravlenie. 2. Statisti-  
cheskoye upravleniye Kaluzhskoy oblasti (for all except Savenkov,  
Slenzin, Fomichev) 2. Nachal'nik Statisticheskogo upravleniya  
Kaluzhskoy oblasti (for Savenkov)  
(Kaluga Province--Economic conditions--Statistics)

BALASH, Aleksandr Pavlovich; PRISTUPA, A.A., prof., otv. red.;  
NOVIKOV, A.V., red.; PAVLICHENKO, M.I., tekhn. red.  
POGOTOV, G.G., tekhn. red.

[Azov steppes on the right bank of the Don River] Priazov-  
skie stepi pravogo berega Dona. Rostov-na-Donu. Izd-vo  
Rostovskogo univ., 1961. 181 p. (MIRA 17:3)

KHATSKOLEVICH, M.N., inzh.; ZAV'YALOV, G.N.; NOVIKOV, A.V., inzh.;  
OZOLIN, A.K., inzh.; LAPIN, V.B., inzh.; DANILOV, V.I., inzh.

Replies to the inquiries of our readers. Elek.i tépl.tiaga 5  
no.9:45-46 S '61. (MIRA 14:10)

1. Glavnyy tekhnolog po avtotormozam Glavnogo upravleniya  
lokomotivnogo khozyaystva Ministerstva putey sooshcheniya (for  
Zav'yalov).

(Railroads---Brakes) (Diesel locomotives)  
(Insulating oils)

NOVIKOV, A.V.

Balancing parts of the automatic gearbox and hydrotransmitter of  
GAZ automobiles. Avt.prom. 27 no.12:37-39 D '61. (MIRA 15:1)  
(Balancing of machinery) (Automobiles--Transmission devices)

MOROZOV, N.N., inzh.; POBIRIYZHA, A.I., inzh.; KOVLEV, A.V.,  
inzh.; VLASOV, V.D., inzh.; TARANENKO, N.A., inzh.

[Manual on safety engineering, industrial hygiene, fire  
protection, and fire prevention on state and collective  
farms] Spravochnik inzhenera po tekhnike bezopasnosti,  
proizvodstvennoi sanitarii, okhrane truda i personalnoi ope-  
rane sovkhoza i kolkhoza. Moskva, Gossetekhnizdat, 1971.  
288 p. (MIRA 12110)

NOVIKOV, A.V.

Stand testing of units and parts of the automatic gearbox and hydraulic torque converter of the "Chaika" automobile. Avt.prom. 28 no.11:18-21 N '62. (MIRA 16:1)

1. Gor'kovskiy avtozavod.  
(Automobiles--Transmission devices, Automatic)

1. MOVKOV, A. Ye.

2. USSR (600)

4. Agriculture

7. General agriculture and soil science. Moskva, Trudrezervizdat, 1951.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

NOVIKOV, Afanasiy Yegofeyevich; PLONSKIY, V.O., red.; PONOMAREVA, A.A.,  
tekh. red.

[The northwestern provinces of the R.S.F.S.R.] Severo-Zapadnyye  
oblasti RSFSR. Moskva, Izd-vo "Sovetskaya Rossiya," 1958. 30 p.  
(MIRA 15:2)

1. Pavil'on "Leningrad i Severo-Zapadnyye oblasti RSFSR" Vse-  
soyuznoy sel'skokhozyaystvennoy vystavki (for Novikov).  
(Russia, Northwestern--Agriculture)

NOVIKOV, Andrey Vladimirovich, kand.tekhn.nauk, dotsent; KYUREGYAN, Sergey  
~~Grigoriyevich, aspirant~~

Modeling of an asynchronous generator with capacitive excitation.  
Izv.vys.ucheb.zav.; elektromekhanika 8 no.6:655-659 '65. (MIRA 18:8)

1. Kafedra elektricheskikh mashin Kiyevskogo politekhnicheskogo  
instituta (for Novikov). 2. Institut elektrodinamiki AN UkrSSR  
(for Kyuregyan).

NOVIKOV, A.Ye.; TASHCHEV, Ye.N.; MIRENKOVA, V.R., red.; SHLEFANOV,  
V.M., red.

[Work experience of agricultural technical schools;  
some problems of theoretical and industrial training];  
Iz opyta raboty sel'skokhoziaistvennykh tekhnikumov;  
nekotorye voprosy teoreticheskogo i proizvodstvennogo  
obucheniia. Moskva, Kolos, 1964. 220 p. (MIRA 19:1)

RAYUNCHIKOV, V.A.; NOVIKOV, B.A.

Possibility of using the hydraulic perforation method in  
geological prospecting. Trudy VITR no.1:413-421 '58.  
(MIRA 12:1)

(Boring machinery)

NOVIKOV, B.A., kandidat tekhnicheskikh nauk.

Laying pipe lines above ground. Mekh.trud.rab. 7 no.9:35-38 S '53.  
(MIRA 6:9)  
(Pipe lines)



NOVIKOV, B. A., Engr

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USSR/Engineering - Construction, Methods 30 Apr 52

"Method for Improving Cohesion of Freshly Placed Concrete With Old Concrete," B. A. Novikov, Engr

"Byul Stroitel Tekh" No 8, pp 21,22

Suggests surface treatment of concrete during its placing with aq soln of distillery refuse, which retards setting and solidification of concrete in thin surface layer. It may be removed easily with metal brushes or stream of water resulting in rough surface suitable for joining with next batch of concrete. Method was used during construction of dam in 1950.

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213T62

1. NOVIKOV, B. A., Eng.
2. USSR (600)
4. Blast Furnaces
7. Laying concrete foundations for a blast furnace by means of a rotating belt conveyor. *Stroi. prom.* 30 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress. January 1953. Unclassified.

1. NEVINOV, P. A. Eng.
2. USSR (696)
4. Concrete, reinforced
7. Rationalizing the work of enterprises light and food products, *Tr. vuzov*, No. 2, 1953

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

1. NCHIKOV, I. A. Eng.
2. USSR (100)
4. Concrete Construction - Formwork
7. Universal metal forms, *Stroitel'stvo i tekhnika*, 1953, 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

NOVIKOV, B., inzhener.

Glass blocks in building. Stroitel' 2 no.6:19 Jo '56.  
(Glass construction)

(MIRA 10:1)

~~NOVIKOV, R.A.~~, kand.tekhn.nauk; RUDENKO-MORGUN, I.Ya., kand.tekhn.nauk,  
nauchnyy red.; SKVORTSOVA, I.P., red.izd-va; BCROVNEV, M.K.,  
tekhn.red.

[Use of glass blocks in foreign countries] Opyt primeneniia  
stekliannykh blokov za rubezhom. Moskva, Gos. izd-vo lit-ry  
po stroit. i arkhit., 1957. 38 p. (MIRA 11:5)  
(Glass construction)

NOVIKOV, B.A., kand.tekhn.nauk

Methods for preventing cracks in porous materials during  
steaming processes. Stroi.mat. 5 no.9:33-35 S '59.  
(MIRA 12:12)

(Lightweight concrete) (autoclaves)

NOVIKOV, B.A., kand.tekhn.nauk

Thermal characteristics of foamed concrete in the process of  
steaming. Stroi.mat. 7 no.5:37-38 My '61. (MIRA 14:6)  
(Lightweight concrete)

BATALIN, Yu.A.; NOVIKOV, B.A., starshiy nauchnyy sotrudnik

Starting the production of cellular silicate concretes at the Stupino factory. Stroi.mat. 7 no.6:7-11 Je '61. (MIRA 14:7)

1. Glavnyy inzhener Stupinskogo zavoda yacheistykh betonov, g. Stupino (for Batalin). 2. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR (for Novikov).

(Stupino---Lightweight concrete)

NOVIKOV, B.A.; PATENCVSKAYA, M.A., red. izd-va; GARKHOVA, K.Ye.  
tekhn. red.

[Handbook on accident prevention for workers in the production of foamed and air-entrained concrete] Pamiatka po tekhnike bezopasnosti dlia rabochikh pri proizvodstve peno- i gazobetona. Moskva, Gosstroizdat, 1962. 31 p.

(MIRA 16:4)

(Concrete plants--Safety measures)  
(Lightweight concrete)

NOVIKOV, B.A., kand.tekhn.nauk

Causes of the non-uniform weight of types of cellular concrete.  
Stroi.mat. 8 no.11:36-39 N '62. (MIRA 15:12)  
(Lightweight concrete)

NOVIKOV, B.A., kand.tekhn.nauk

Basic causes of the lack of strength uniformity in cellular con-  
cretes. Stroi. mat. 9 no.4:6-9 Ap '63. (MIRA 16:5)  
(Lightweight concrete--Testing)

NOVIKOV, B.A., kand. tekhn. nauk; LEVIN, N.I.; MASLENNIKOVA, G.P., inzh.

Manufacture of air-ash-silicate at the Stupino cellular concrete plant. Trudy NII ZHB no.32:203-217 '63.

(MIRA 17:1)

NOVIKOV, B.A., kand. tekhn. nauk

Analyzing the causes of the nonhomogeneity of cellular  
concrete. Trudy NIIZHB no.32:242-255 '63. (MIRA 17:1)

NOVIKOV, B. B.  
Category : USSR/Optics - Physics/Optics

K-5

Abs Jour : Ref Zhur - Fizika Vol 1, 1954, No 2316

Author : Gross, Ye F., Kaplyanskiy, A. A., Novikov, B. B.  
Title : Photoconductivity, Radiation and Absorption of Light in HgI<sub>2</sub> Crystals

Orig Pub : Zh. tekhn. fiziki: 1956, 26, No 3, 697-700

Abstract : An investigation was made of the distribution of photoconductivity  $\epsilon_{ph}$  of single crystals of red HgI<sub>2</sub> and crystals of it at 77.3 K in polarized light. The optical axis  $c$  is parallel to the surface of plate I. If the light is incident exactly perpendicular to the surface, the  $\epsilon_{ph}$  curve for a ray with  $E$  perpendicular to  $c$  has a rapid rise near the sharp absorption edge of this ray ( $\lambda = 5350-5390 \text{ \AA}$ ), and then diminishes slowly toward the short-wave side. This decrease contains a narrow gap, the position of which coincides with the polarized 5330  $\text{\AA}$  excitation absorption line ( $E$  is perpendicular to  $c$ ). The  $\epsilon_{ph}$  curve for a ray with  $E$  parallel to  $c$  has a broad maximum, corresponding to the absorption edge of the extraordinary ray ( $\lambda = 4950-5150 \text{ \AA}$ ). If plate I is turned slightly about an axis perpendicular to the surface, a narrow peak appears at 5330  $\text{\AA}$ . The fact that the 5330  $\text{\AA}$  excitation line appears both in the form of a peak and in the form of a gap in  $\epsilon_{ph}$  is ascribed to the variation in the absorption of light of varying polarization as a function of the crystal orientation relative to the incident ray. The peak of  $\epsilon_{ph}$  is observed when

Card : 1/2

Category : USSR/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika No. 1, 1967, No. 2315

excitons are formed over the entire thickness of the crystal, while the gap in  $\epsilon_{ph}$  appears when they are created and annihilated in the surface layers. It is deduced that the photoeffect is partly due to exciton excitation. An assumption is made that the photoeffect occurring upon absorption in the continuous spectrum is also due to exciton formation by recombination of electrons and holes.

Card : 2/2

MIKUTA, V.I. (Novosibirsk); NOVIKOV, B.G. (Novosibirsk)

Circular flow around objects with arbitrary prof. les.  
PMTF no.3:97-101 S-0 '60. (MIRA 14:7)

1. Institut gidrodinamiki Sibirskogo otdeleniya AN SSSR.  
(Laminar flow)  
(Hydrodynamics)

KOVAL', A.A. [deceased] (Novosibirsk); NOVIKOV, B.G. (Novosibirsk)

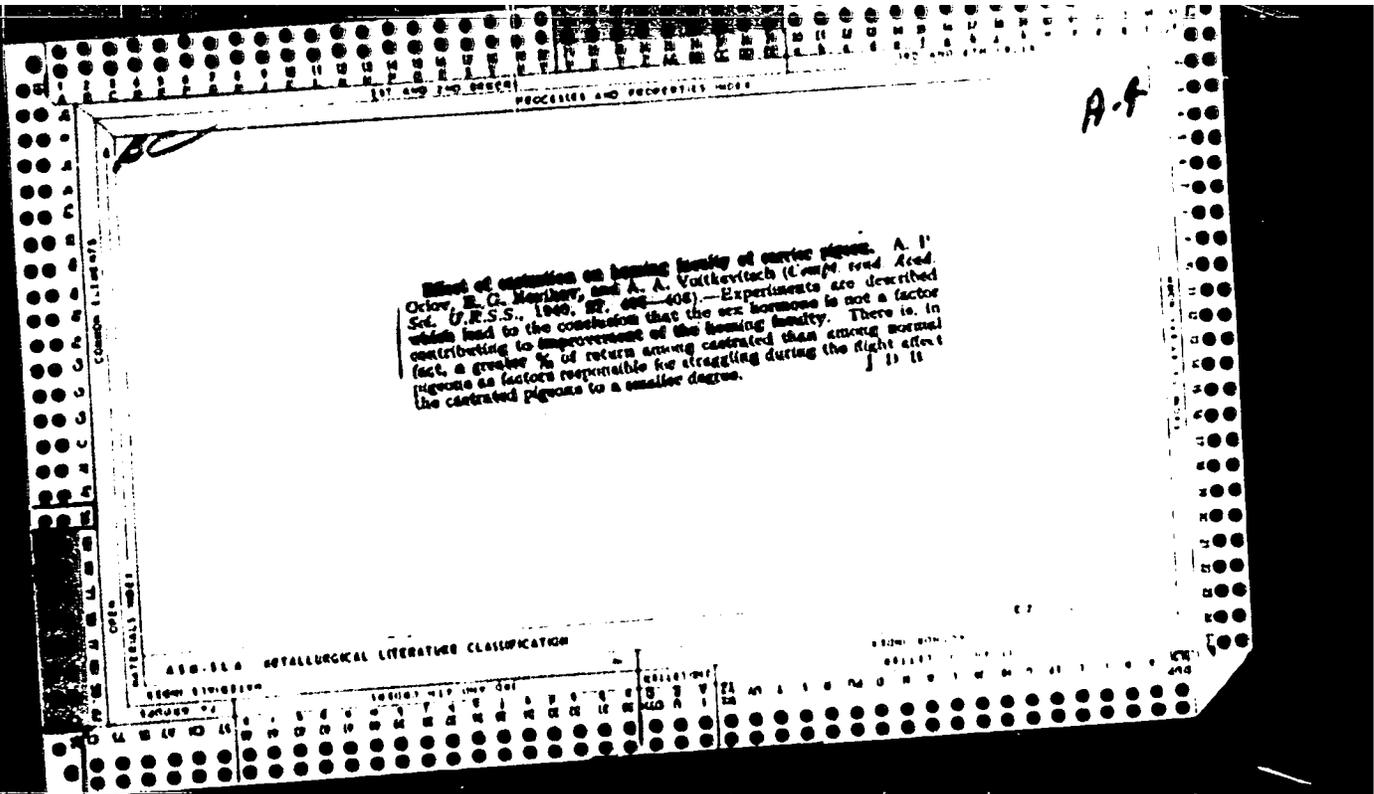
Investigating cavitation flows around solids of revolution in  
carousel type hydraulic ducts. PMTF no.3:197-200 S-0'6C.  
(MIRA 14:7)

(Cavitation)

(Hydrodynamics)

NOVIKOV, B. G.

"Analysis of the Mechanism of Seasonal-Change of Plumage Lagopus (L)  
Dok AN No. 6, 1939. Inst. Evol Morphol. Acad Sci.



NOVIKOV, B. G.

Novikov, B. G. - "The regional sensitivity of plumage to hormones and its experimental analyses," Trudy In-ta zoologii (Akad. nauk Ukr. SSR), Vol. II, 1949, p. 3-17, (In Ukrainian, resume in Russian), - Bibliog: p. 16

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

NOVIKOV, B.G. [Novikov, B.H.].

Local sensitivity of feathers to hormones and an experimental  
analysis. Trudy Inst. zool. AN URSR 2:3-17 '49. (MIRA 11:6)  
(Feathers) (Hormones)

NOVIKOV, B. G.; BLADODATSKAYA, G. I.

Arctic Regions

Development of seasonal coats of arctic animals. Nauk. zap. Kyiv. un. 9 no. 7, '50

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.

NOVIKOV, B.G.

Experiment with asexual hybridization of poultry. Trudy Inst.  
zool. AN URSSR 10:3-34 '53. (MLRA 7:10)  
(Poultry breeding) (Hybridization) (Transplantation (Physi-  
ology))

NOVIKOV, B.G.

Sexual maturation and egg production of waterfowl under different  
lighting conditions. Trudy Inst.zool. AN URSR 10:35-52 '53.  
(Water birds) (Photoperiodism) (MLRA 7:10)

NOVIKOV, B.G.; BLAGODATSEAYA, G.I.

Early physiological maturity and development of geese raised  
in different seasons of the year. Trudy Inst.sool. AN USSR 10:  
91-96 '53. (MIRA 7:10)  
(Geese) (Light--Physiological effect)

NOVIKOV, B.; LEVITSEAYA, G.; ABRAMOV, A.

Reaction of the hypophyseal-thyroid complex to the action of  
temperature in the embryonic and postembryonic stage of deve-  
lopment of certain warm-blooded animals. Trudy Inst.zool. AN URSR  
10:105-123 '53. (MLRA 7:10)  
(Pituitary body) (Thyroid gland) (Temperature--Physiological  
Effect)

NOVIKOV, B.G.

~~\_\_\_\_\_~~  
New achievements in the development of O.B.Lepeshinskaja's teachings  
on the living matter and extracellular forms of life. Medyzh. zhur.  
23 no.4:89-93 '53. (MLRA 6:2)  
(LEPESHINSKALA, OL'GA BORISOVA, 1871- )  
(CELLS)

*Nov. Kov, B. G.*

7529. Experimental analysis of the difference in seasonal and sexual reactions of the gonads of birds to light. B. G. Novikov *Izv. Vsesoyuzn. Nauchn. Ts. Zool. i Akklimat. Inst. AN SSSR*, 1955, 12, 37-53. — Testes of male House Sparrows were extirpated and ovaries implanted, and testes similarly implanted in female House Sparrows. After the operation the birds were kept in aviaries with 16 hours' illumination per day. After 30-40 days the beaks of the females became black, while only two of the males with implanted ovaries retained the black colour of the beak. 70 days after the transplantations all the birds were killed and it was found that in all of the 38 females the testes were well developed and active, while the ovaries implanted in the males had not developed, fragments of them, or normal follicles, being found in only five of them. (Russian)

*MARK*

NOVIKOV, B.G.

Experimental analysis of the different reactions of bird genads to light  
according to sex and season. Trudy Inst.zool.AN URSS 12:37-53 '55.  
(Light--Physiological effect) (Hermenes, Sex) (MIRA 9:7)

NOVIEOV, B.G.; MANZHELEY, V.U.

Development and growth of ducks reared at different seasons of the  
year. Trudy Inst.zool.AN URSR 12:54-67 '55. (MIRA 9:7)  
(Ducks)

NOVIKOV, B.G.

Specific variations in the development of constant sexual dimorphic characters in birds. Trudy Inst.zool.AN URSR 13:58-70 '55.

(MLRA 9:11)

(Birds) (Dimorphism (Animals))

NOVIKOV, B.G.

Development of seasonal characters in birds. Trudy Inst. zool. AN  
URSS 13:45-57 '56. (MLRA 9:11)  
(Birds) (Photoperiodism)

NOVIKOV, B.G.; MOSHKOV, Ye.A.; ABRAZHEY, A.H.

Importance of different light conditions for the growth and development of birds. Dokl.AN SSSR 107 no.3:488-491 Mr '56. (MLRA 9:7)

1.Institut zoologii Akademii nauk USSR. Predstavleno akademikom I.I.Shral'-gauzenom.

(Poultry research)

SVIRIDENKO, Pavel Alekseyevich; NOVIKOV, B.A., doktor biologicheskikh nauk, otvetstvennyy redaktor; GRUDZINSKAYA, O.S., redaktor izdatel'stva; KOLOMIYCHUK, V.O., tekhnicheskiy redaktor

[Storage of food by animals] Zapasanie korma zhiivotnymi. Kiev, Izd-vo Akad. nauk USSR, 1957. 154 p. (MIRA 10:4)  
(Animals, Food habits of)

NOVIKOV, B.G.; MOSHKOV, Ye. O.; ABRIZHEY, A.M.

Growth and development of ducks under various lighting conditions.  
[with summary in English]. Dop. AN URSR no.1:98-100 '57. (MLBA 10:4)

1. Institut zoologii AN URSR. Predstaviv diysniy chlen AN URSR V. G.  
Kas'yanenko.  
(Ducks)

NOVIKOV, B.G. [Novikov, B.H.]

Analysis of somatic induction in birds. Visnyk Kyiv. un.  
Ser. biol. no.1:117-122 '58. (MIRA 15:6)  
(POULTRY)  
(TESTICLE—TRANSPLANTATION)

NOVIKOV, B.G. [Novikov, B.H.]

Conference on the heredity and variability of plants, animals  
and micro-organisms. Visnyk Kyiv. un. Ser. biol.  
no.1:177-181 '58. (MIRA 15:--)  
(GENETICS---CONGRESSES)

NOVIKOV, B.G. [Novikov, B.H.]; SALGANSKAYA, L.O. [Salhans'ka, L.O.]

Seasonal variations of the functions of the thyroid gland in female Pekin ducks. Visnyk Kyiv.un. no.1. Ser.biol. no.2:97-105 '58. (MIRA 16:4)

(THYROID GLAND) (DUCKS)

SOV-21-56-A-21/29

AUTHORS: Novikov, B.G., Meshkov, I.A., and Rudava, L.B.

TITLE: Intensity of Reproduction of Domestic and Wild Birds Under Conditions of a Varying Rationing of Light (Intensivnost' razmnozheniya domashnikh i divnykh ptits v usloviyakh razlichnogo svetovogo dnya)

PERIODICAL: Doprividi Akademii nauk S'rains'koi RSR, 1958, Nr 4, pp 463-466 (USSR)

ABSTRACT: A great deal of attention has been paid recently to the study of the effect of light on the sexual functions and growing processes of animals. Some authors, on the basis of studying the effects of a one-phase and a two-phase daily light rhythmus, came to a conclusion that the latter accelerates the sexual maturing and intensifies egg-laying of hens. The authors' investigations have not confirmed these results. They present a comparative analysis of the effect of two-phase daily light rhythmus and a continuous increased light day on the function of the sexual gland of bronze turkey hens and cock sparrows. Investigations showed that under conditions of a two-phase daily light ration there is a considerable decrease in egg laying in young turkey hens as compared with the continuous increased light day. In older bronze turkey hens, no difference in egg laying was dis-

Card 1/2

SIW 21-5241-10725

Intensity of Reproduction of Domestic and Wild Birds Under the Influence of a Varying Light Rationing

covered. In the cock sparrow, however, the cycle of testicular activity was somewhat contracted under the effect of a two-phase daily light rhythmus. There are 2 tables and 4 Soviet references.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet i institut zoologii AN UkrSSR (Kiyev State University and Institute of Zoology of the AS UkrSSR)

PRESENTED: By Member of the AS UkrSSR, A.P. Markevich

SUBMITTED: September 11, 1957

NOTE: Russian title and Russian names of individuals and institutions appearing in this article have been used in the transliteration.

1. Birds--Reproduction
2. Birds--Growth
3. Birds--Physiology
4. Artificial daylight--Physiological effects

Card 2/2

NOVIKOV, B. G.

"Change of the properties of heritage of male sex cells in domestic fowls  
by means of an inter-racial transplantation of the testicles."

reported at Conference on Problem of Heredity and Variability, held at  
Institute of Genetics, AS USSR, 8-14 Oct 1957  
Vestnik AN SSSR, 1958, Vol. 28, No. 1, pp. 127-129 (author Kushner, Kh. F.)

NOVIKOV, B.G. (Novykov, B.H.), doktor biol.nauk, prof.

Great explorer of nature. Nauka i zhyttia 9 no.1:42-45  
Ja '59. (MIRA 12:1)  
(Darwin, Charles Robert, 1809-1882)

NOVIKOV, B.G. [Novykov, B.H.]

Second All-Union Conference of Ornithologists. Visnyk Kyiv.  
un. no. 3: Ser. 5 fol. no. 1: 169-170 '60. (MIRA 1614)  
(ORNITHOLOGY--CONGRESSES)

NOVIKOV, B.G. [Novykov, B.H.]

All-Union Conference on the Philosophical Problems of Natural  
Sciences. Visnyk. Kyiv. un. no.2. Ser.Biol. no.2:103-105'60.  
(MLA 10.8)

(SCIENCE—PHILOSOPHY)

CHEPINGA, O.P.; NOVIKOV, B.G.; LYUBARSKAYA, I.Yu. KHILOBOK

Characteristics of chemical composition of desoxyribonucleic acids  
in various groups of birds in normal conditions and after crossed  
inoculation with DNA. Acta.physiol.hung 17 no.2:109-115 '60.

1. Institut biokhimi Akademii nauk Ukrainskoy SSR i Kafedra  
eksperimental'noy biologii Kievskogo gosudarstvennogo universiteta.  
(DESOXYRIBONUCLEIC ACIDS)  
(GENETICS)

CHEPINOGA, O.P. [Chepynoha, O.P.]; NOVIKOV, B.G. [Novykov, B.H.];  
LYUBARSKAYA, M.A. [Liubars'ka, M.O.]; KHILOBOK, I.Yu.

Some characteristics of desoxyribonucleic acids from erythrocytes of ducks of various breeds under normal conditions and following reciprocal treatments with desoxyribonucleic acid preparations. Ukr.biokhim.zhur. 32 no.3:368-380 '60.

(MIRA 13:6)

1. Institute of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R., Kiyev and the Experimental Biology Department of Kiyev State University.

(DESOXYRIBONUCLEIC ACID) (HEREDITY)

LYSENKO, I.S.; KISSIN, D.A.; IOFFE, V.Ye.; NOVIKOV, B.G.

Experimental sintering with a partial substitution of coke breeze.  
Bul.TSIICHM no.4:36-37 '61. (MLHA 14:10)

1. Zavod "Zaporozhstal".  
(Sintering) (Coke)

NOVIKOV, B.G.; GHEPINOVA, O.P.; LYUBARSKAYA, M.A.

Effect of injection of heterogenic DNA in ducks. Zhur. ob.  
biol. 22 no.4:317-320 J1-Ag '61. (MIRA 15:6)

1. Institute of Physiology, State University of Kiev, and  
Institute of Biochemistry, Academy of Sciences of the Ukrainian  
S.S.R.

(DESOXYRIBONUCLEIC ACID)  
(DUCKS)

-NOVIKOV, B.G. [Novykov, B.H.]; CHEPINOVA, O.P. [Chepynoha, O.P.]; LYUBARSKAYA,  
M.A. [Liubars'ka, O.M.]; SERBA, R.M.; PTITSA, A.N. [Ptytsia, O.M.]

Some specific features of the desoxyribonucleic acid of erythrocytes  
and somatic characteristics of ducks during cross treatment with  
desoxyribonucleic acid preparations. Ukr. biokhim. zhur. 33 no.5:  
633-645 '61. (MIRA 14:10)

1. Institutw of Physiology of Kiyev State University and Institute  
of Biochemistry of the Academy of Sciences of the Ukrainian S.S.R.,  
Kiyev.

(DESOXYRIBONUCLEIC ACID)

NOVIKOV, B.G. [Novykov, B.H.]

Using the method of intervarietal transplantation of testicles  
in poultry breeding. Visnyk Kyiv. un. no.5. Ser.biol. no.1:  
81-87 '62. (MIRA 16:5)  
(POULTRY) (NUCLEIC ACIDS) (TESTICLE--TRANSPLANTATION)

NOVIKOV, B.G. [Novykov, B.H.]; MANZHELEY, V.U.

Biological foundations of year-round raising of waterfowl. Visnyk  
Kyiv.un. no.5. Ser.biol. no.2:91-97 '62. (MIRA 16:5)  
(GEESE) (DUCKS)

ИВАНОВ, А.С.; СЕПИНОВА, О.И. (Сепинова, О.И.); ЛИБАРСКАЯ, Е.А.,  
(Lyubarskaya, E.A.)

Effects of the injection of heterogeneous ADN in ducks.  
Analele biol. no.1:19-23 Ja-F '66

NOVIKOV, B.G.; LYUBARSKAYA, M.A.

Resistance of bird gonads to low temperature. Dokl. AN SSSR  
142 no.4:961-964 F '62. (MIRA 15:2)

1. Institut fiziologii zhivotnykh Kiyevskogo gosudarstvennogo  
universiteta im. T.G.Shevchenko. Predstavleno akademikom  
I.I.Shmal'gauzenom.

(Testicle)

(Cold--Physiological effect)

(Birds--Physiology)

NOVIKOV, B. G.,

"Experimental Change in the Hereditary Character of Gametes in Birds."

report submitted for the 11th Intl. Congress of Genetics, The Hague, Netherlands,  
2-10 Sep 63

NOVIKOV, B.G. [Novykov, B.H.]; MARTYNOVA, O.G. [Martynova, O.H.];  
LYUBARSKAYA, M.O. [Liubars'ka, M.O.]; GRISHCHENKO, N.M.  
[Hryshchenko, N.M.]; LAPSHINA, N.Yu. [Lapshyna, N.F.]

Development and function of the thyroid gland and the anterior  
lobe of the hypophysis in the embryonic period of life of  
various poultry breeds. Visnyk Kyiv.un. no. 3. Ser. biol.  
no. 1:97-107 '60. (MIRA 16:4)

(THYROID GLAND) (PITUITARY BODY) (EMBRYOLOGY--BIRDS)

L 19793-65 Pb-1 AS(mp)-2/AMD  
ACCESSION NR: ARL4045768

S/0299/64/000/013/M017/M017

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 13M106

AUTHOR: Novikov, B. G.; Lyubarskaya, M. A.

TITLE: A comparative evaluation of liquid oxygen and liquid helium action on isolated gonads before transplantation to domestic sparrows

CITED SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkaney i organov, 1963. Yerevan, 1963, 161-162

TOPIC TAGS: sparrow, gonad, transplantation, testis, oxygen, helium, freezing, low temperature, liquid oxygen, liquid helium, preservation

TRANSLATION: Experiments were staged in the fall when testes of sparrows are in an inactive state and weigh 2 to 3 mg. In the 1st series testes were frozen for 30 min in liquid helium (-269°C), in the 2nd series in liquid oxygen, in the 3d series in liquid helium with a protective medium (8 mol of ethylene glycol), in the 4th series in liquid oxygen with a protective medium, and the 5th series served as a control. After thawing, the testes were transplanted into the

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L 19793-65  
ACCESSION NR: AR4045768

body cavities of the castrated males. In all experimental series, birds were exposed to 16 hrs of sunlight daily for 50 days after the operation to stimulate the transplanted gonads. In the control series accretion took place in 96% of the experiments, spermatogenesis was completely restored, and weight of testes reached 145 mg by the end of the experiment. Testes did not accrete after being frozen in helium, testes did accrete in 32% of the cases after being frozen in oxygen, but the gonads were sterile. Results were considerably improved with the use of a protective medium: accretion was found in 83% of the cases after freezing in helium and 91% of the cases after freezing in oxygen. Spermatogenesis was found in most cases, and testes increased considerably in size by the end of the experiment, but not as much as control testes.

SUB CODE: LS

ENCL: 00

Card 2/2

NOVIKOV, B.G.; BEINSSTEYN, R.S.; BYTKIN, V.N.

Reducing air dustiness in sintering plants. Metallurg 9 no.11:  
14-15 Ja '64 (MIRA 18:1)

1. Zavod "Zaporozstal".

SUPRUNENKO, R.S.; PRITYKIN, D.P.; NOVIKOV, B.G.; KISSIN, D.A.;  
BERSHTEYN, R.S.; SHABLIYENKO, I.D.

Scrubbing of sintering furnace gas. Metallurg 9 no.10:14-15  
0 '64 (MIRA 18:1)

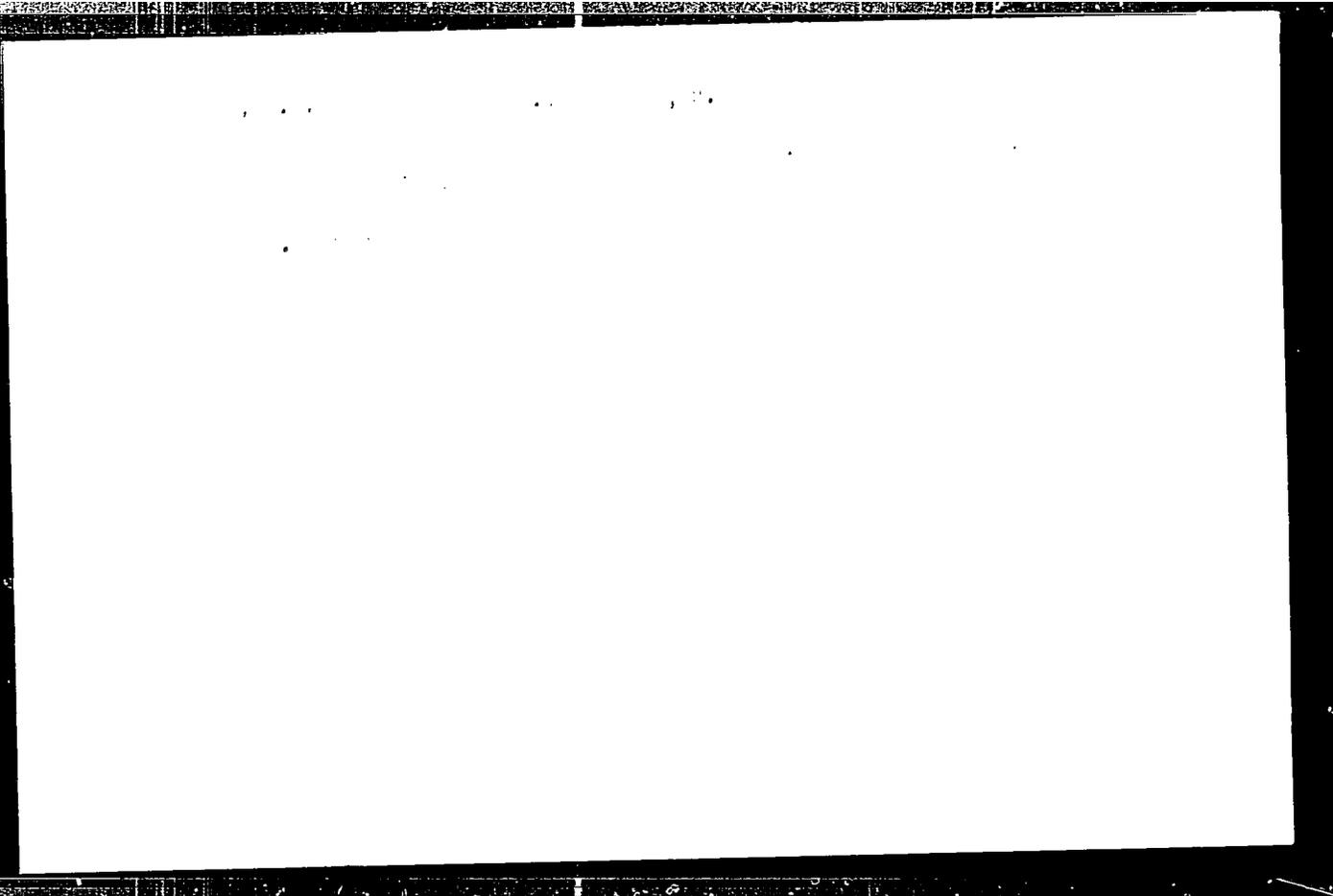
1. Zavod "Zaperozhstal".

SYROMYACSKIY, V.A.; NOVIKOV, B.G.; BERDHTSYN, R.S.; PRITYKIN, I.P.;  
OKATYY, K.A.

Automatic control of the return cooling cycle in a sintering  
plant. Metallurg no. 6: 8-10 '65. (MIRA 12:)

1. Zavod "Dneprozhtal".

"APPROVED FOR RELEASE: 07/19/2001      CIA-RDP86-00513R001137420015-7



APPROVED FOR RELEASE: 07/19/2001      CIA-RDP86-00513R001137420015-7"

ACC NR: AP6027041

SOURCE CODE: UR/0020/66/166/005/1107/1110

AUTHOR: Zhdanov, S. P.; Novikov, B. G.;

ORG: Institute of Chemistry of Silicates Im. I. V. Grebenshchikov, AN SSSR (Institut khimii silikatov AN SSSR)

TITLE: Synthetic erionites and their adsorption properties with respect to water vapors

SOURCE: AN SSSR. Doklady, v. 166, no. 5, 1966, 1107-1110

TOPIC TAGS: adsorption, water vapor, zeolite, chemical synthesis, chemical composition, chemical reaction, cation, reaction rate, reaction temperature

ABSTRACT: Erionite, a rare natural zeolite, was previously successfully synthesized by one of the authors (S. P. ZHDANOV, Izv. AN SSSR, Ser. Khim., No 6, 1965) from alkaline Na-P silica-alumina gels at 100°C. Compared with a  $\text{SiO}_2:\text{Al}_2\text{O}_3$  ratio of 6 for natural erionites, this ratio for synthetic erionites varies from 7 to 7.4. Isotherms of water adsorption are presented as a function of changes in the chemical composition of erionite (removal of cations, formation of hydroxyls, decomposition of  $\text{NH}_4^+$  and dehydroxylation) owing to decationization, dealuminization and heat treatment. Adsorption of water on the original cation form of erionite is independent of heating temperature within the investigated limits (up to 800°C), whereas adsorption on dealuminized specimens decreases with increasing temperature. Conversely, adsorption of the  $\text{NH}_4$ -form considerably increases with increasing temperature. These differences may be associated with the differences in the packing density of the molecules of the adsorbed water in the cavities in such cases.

This paper was presented by Academician M. M. Dubinin on 17 June 1965. The authors thank Ye. N. Yegorova for carrying out the analysis. /PRS: 36,455/

SUB CODE: 07 / SUBM DATE: 18Jun65 / ORIG REF: 005 / OTH REF: 008

Card 1/1

UDC: 549.67

09/77

0029

**NOVIKOV B.I.**

Functional ability of the liver in suppurative surgical infections.  
Vest.khir. 70 no.2:29-31 F '50. (GML 19:3)

1. Of the Department of General Surgery (Head -- A.M.Gurevich),  
Voronezh State Medical Institute.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001137420015-7

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001137420015-7"

NOVIKOV, B.I., dots. (Voronezh)

Liver function disorder in biliary fistula. *Klin.med.* 36 no.11:71-77  
(MIRA 11:12)  
E '58

1. Iz kliniki obshchey khirurgii (zav. - prof. K.N. Kochev)  
Voronezhskogo meditsinskogo instituta.  
(BILIARY TRACT, fistula  
causing liver funct. disord. (Rus))  
(LIVER DISEASES, etiol. & pathogen.  
funct. disord. due to biliary tract fistula (Rus))

NOVIKOV, B.I., dotsent (Voronezh, Studencheskaya ul., d.16. kv.1)

Functional and histopathological changes in the liver and other  
viscera in acholia [with summary in English]. Vest.khir. 80  
no.4:51-55 Ap'58 (MIRA 11:5)

1. Iz kliniki obshchey khirurgii (i.o. zav. - dotsent B.I. Novikov)  
Voronezhskogo meditsinskogo instituta.

(BILE,

acholia, funct. & histol. eff. on liver & other organs  
(Rus))

(LIVER, in var. dis.

acholia, funct. & histol. changes (Rus))

NOVIKOV, B.I. (Voronezh)

On the pathogenesis of acholia. Eksp. khir. 4 no. 4: 44-45  
Jl-Ag '59. (MIRA 12:11)  
(BILE)

1. The first part of the document is a list of names and titles of the members of the committee.

2. The second part of the document is a list of the names and titles of the members of the committee who have been appointed to the various subcommittees.

3. The third part of the document is a list of the names and titles of the members of the committee who have been appointed to the various subcommittees. (MIRA 28:10)

NOVIKOV, B. M.

Mechanization of the chill casting process. Lit. proizv. no.10:  
41-42 0 '62. (MIRA 15:10)

(Machine molding(Founding))



ACC NR: AP6929068 (A)

SOURCE CODE: UR/0413/66/000/014/0123/0123

INVENTOR: Novikov, B. N.; Zaturinov, E. A.

ORG: none

TITLE: Internal-combustion-engine cylinder block

SOURCE: Izobret prom stroit'kov zn, no. 14, 1965, 147

TECH TAGS: internal combustion engine, engine cylinder, engine part

ABSTRACT: This Author Certificate introduces an internal-combustion-engine cylinder block containing cylinders with cooling jackets and intake and exhaust pipelines. For greater rigidity and better performance of the piston group, the cylinders are integrated with the pipelines into one block. Orig. art. has 1 figure. (CA)

SUB CODE: 21/ SURM DATE: 08Apr65

Card 1/1

HDC: 621.43-231-225.1

NOVIKOV, Boris Pavlovich; BARSUKOV, K.P., inzhener, redaktor; KANDYKIN,  
A.Ye., tekhnicheskii redaktor

[Precast reinforced concrete passenger and freight platforms]  
Sbornye zhelezobetonnye passazhirskie i gruzovye platformy. Moskva,  
Gos. transp. zhel-dor. izd-vo, 1956. 43 p. (MLRA 9:11)  
(Railroads--Stations)  
(Precast concrete construction)

NOVIKOV, B.P.

Epidemiology of cattle smallpox in man. Zhur.mikrobiol. epid.i imun.  
28 no.5:102-103 Ky '57. (MLRA 10:7)

1. Iz Ivanovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.  
(VACCINIA, epidemiol.  
control)

NOVIKOV, B.P.

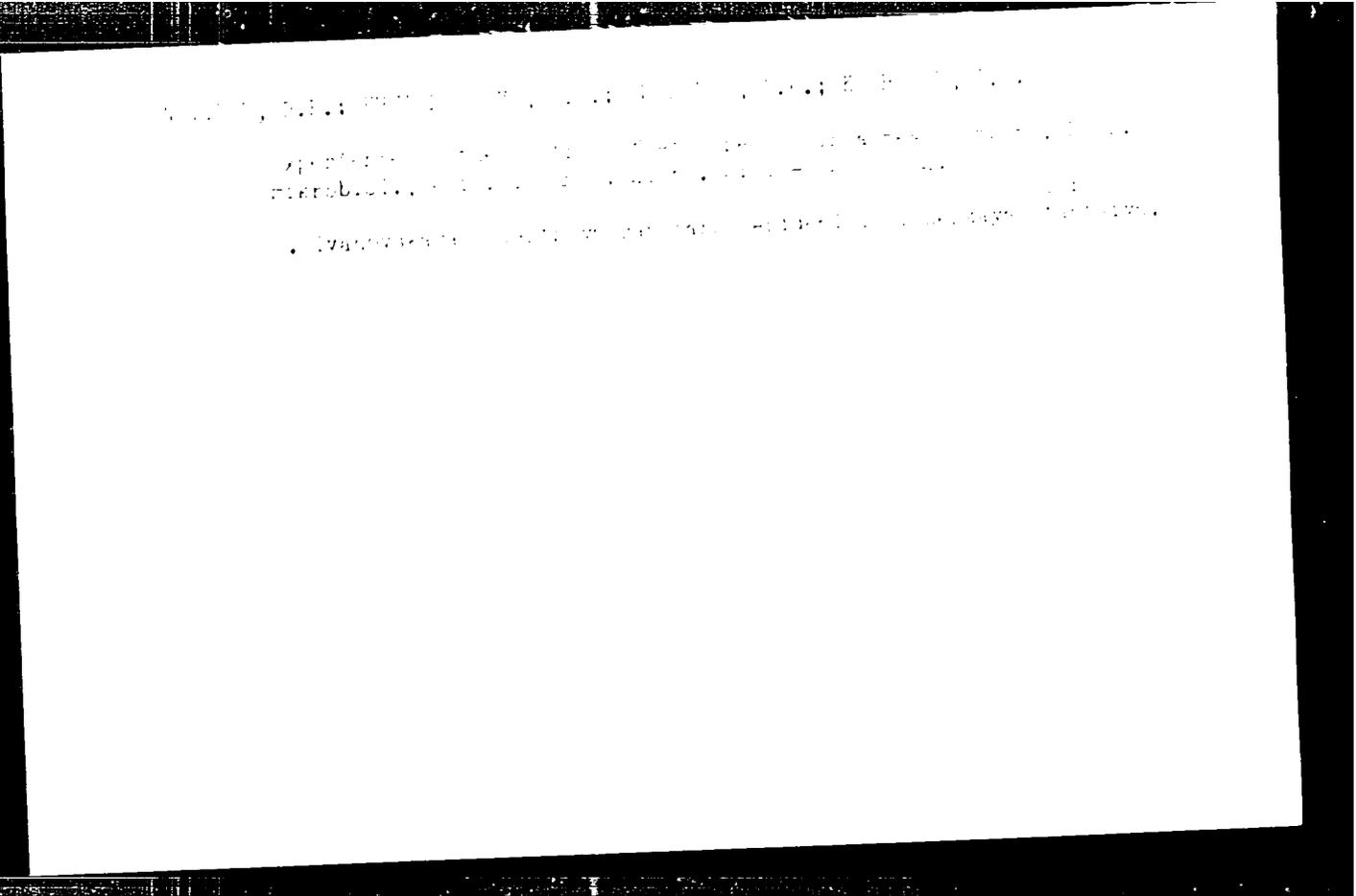
Epidemiology of typhoid fever. Zhur.mikrobiol. i imun. 29  
no.4:36-38 Ap '58. (MIRA 11:4)

1. Iz Ivanovskoy oblasti sanitarno-epidemiologicheskoy stantsii.  
(TYPHOID FEVER, epidemiology.  
(Rus)

NOVIKOV, B.P.

Epidemiology of anthrax. Zhur. mikrobiol. epid. i ~~immun.~~ 31  
no. 5:119 My '60. (MIRA 13:10)

1. Iz Ivanovskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.  
(ANTHRAX)



SK

Category : USSR/Electricity - Semiconductors

G-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4212

Author : Gross, Ye.F., Kaplyanskiy, A.A., Novikov, B.V.

Title : Structure of Spectral Curve for Internal Photoeffect in Crystals of Cadmium Sulfide

Orig Pub : Zh. tekhn. fiziki, 1956, 26, No 4, 913-916

Category : USSR/Electricity - Semiconductors

G-3

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4212

ductivity. Such a phenomenon was observed earlier by the authors in the case of  $HgI_2$  (Referat Zh. Fizika, 1950, 2316) and is connected, in their opinion, with an increase in the absorption coefficient when E is perpendicular to c. If the coefficient is very large, all the light is absorbed near the surface, which may cause a reduction in photo-conductivity owing to the increased exciton annihilation.

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NOVIKOV, B. V.

Category: USSR / Physical Chemistry - Crystals

B-5

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29747

Author : Gross Ye. Fe., Kaplyanskiy A. A., Novikov B. V.

Inst : Academy of Sciences USSR - ~~Phys. Tech. Inst.~~

Title : Exciton Structure of Spectral Curves of Photoelectric Effect in Crystals

Orig Pub: Dokl. AN SSSR, 1956, 110, No 5, 761-764

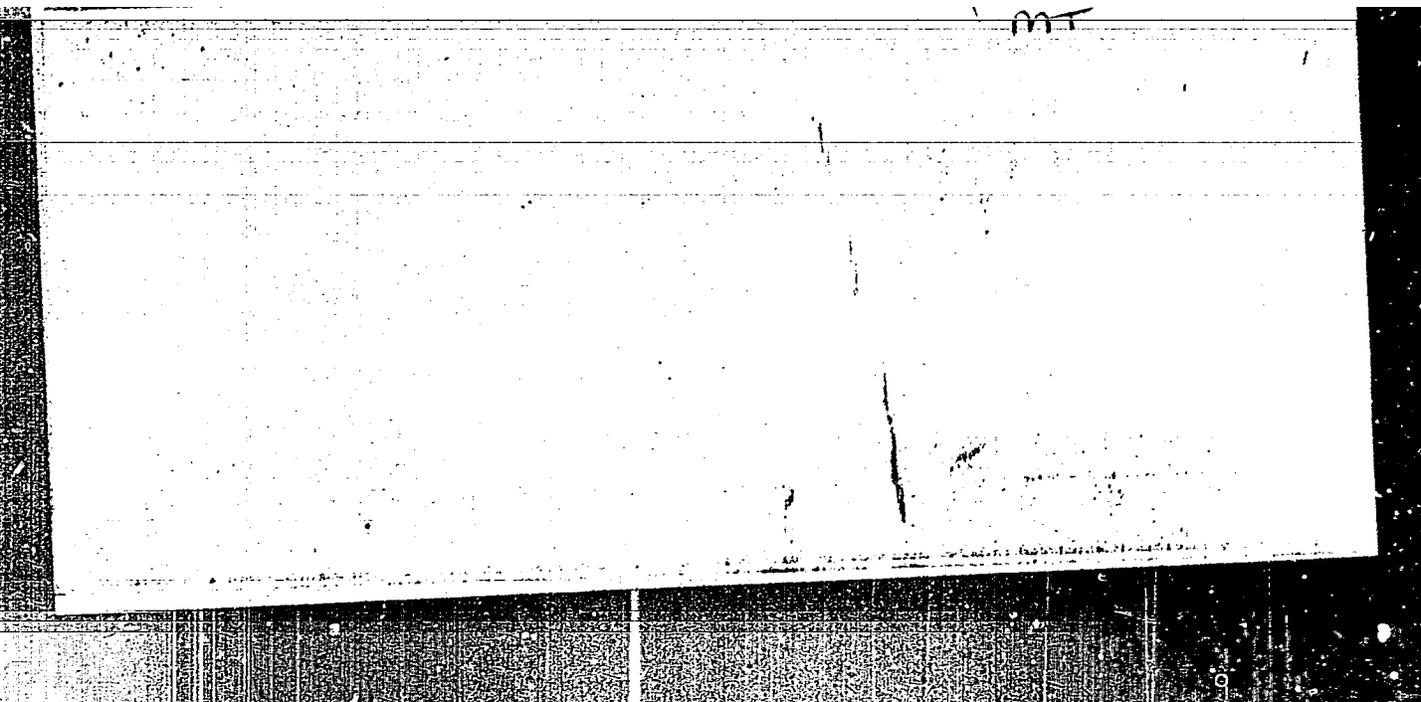
Abstract: Investigation of spectral distribution of internal photoeffect (PE) of HgI<sub>2</sub> and CdS crystals in the proximity of absorption edge where, according to other publications, narrow exciton absorption lines are present. Measurements were conducted at 77.3°K in polarized light, with monocrystal plates containing the c axis or perpendicular to c, at different mutual orientations of light vector E, direction of light incidence l and axis c. In the case of singular beam, when C and E form an acute angle, HgI has a PE peak at 5330 A, and CdS has peaks at 4869, 4840 and 4820 A. Position of all peaks coincides with the position of the lines of exciton absorption of these crystals.

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APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R001137420015-7"

57-28-4-17/39

AUTHORS: Gross, Ye. P.     Kavikov, B. V.

TITLE:            On the problem of the structure of a spectral curve of the  
                  Internal photoeffect in CdS-crystals (K voprosu o strukture  
                  spektral'nykh krivykh vnutrennykh fotoeffekta v kristallakh  
                  CdS)

PERIODICAL:      Zhurnal Tekhnicheskoy Fiziki 1959 Vol. 29 No. 4, pp.782-783  
                  (USSR)

ABSTRACT:        This is a letter to the editor. In connection with Ref 3 the  
                  investigation of the spectral characteristics of photo-  
                  conductivity in various CdS-monocrystals at  $T = 77 \pm 3^{\circ}K$  was  
                  continued. These experiments showed that the shape of the  
                  spectral curves essentially depends on the orientation of  
                  the crystals with regard to the direction of the incident  
                  light beam and on the state of its polarization. The occur-  
                  rence of the absorption lines in the form of peaks or de-  
                  pressions in the photoeffect curves however, is mainly  
                  not determined by these conditions (Ref 1) but depends  
                  on the type of crystal. The crystals are according to the

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57 28-4-17/39

On the Problem of the Structure of a Spectral Curve of the Internal Photo-effect in CdS-Crystals

nature of the spectral curves of photoconductivity divided into two groups. 1) At  $T = 27.5^{\circ}\text{K}$  the peaks of the curves of photoconductivity correspond to the absorption lines  $\lambda 4870 \text{ \AA}$  and  $\lambda 4840 \text{ \AA}$ . The peak  $\lambda 4870 \text{ \AA}$  is polarized with the electric vector EAC also the line corresponding to it. In the decline of the short wave portion of the curve of photoconductivity wide maxima are observed at  $\lambda 4795 \text{ \AA}$  and  $\lambda 4730 \text{ \AA}$ . 2) The minima at the photocurrent curve here correspond to the same absorption lines. Here too the polarization of the spectral curves agrees with the polarization of the absorption curves. In the short-wave part of the photocurrent curve a wide minimum is here observed at  $\lambda 4795 \text{ \AA}$ . A more intensive infrared illumination exerts an extinguishing influence upon the photocurrent in crystals of both groups. It especially strongly influences the long-wave part of the photocurrent curve in crystals of the second group. A detailed description is given. There are 4 references 4 of which are Soviet.

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57-28-4-17/39

On the Problem of the Structure of a Spectral Curve of the Internal Photo-effect in CdS-Crystals

ASSOCIATION: Leningradskiy gosudarstvennyy universitet  
(Leningrad State University)

SUBMITTED: November 16, 1957

Card 3/3

